```
FILE 'STNGUIDE' ENTERED AT 10:19:03 ON 01 JUN 2009
COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                   ENTRY       SESSION
FULL ESTIMATED COST                                 0.07        598.41

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE      TOTAL
                                                   ENTRY       SESSION
CA SUBSCRIBER PRICE                                 0.00        -39.28

=> file reg
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                   ENTRY       SESSION
FULL ESTIMATED COST                                 0.07        598.41

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE      TOTAL
                                                   ENTRY       SESSION
CA SUBSCRIBER PRICE                                 0.00        -39.28

FILE 'REGISTRY' ENTERED AT 10:19:12 ON 01 JUN 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   31 MAY 2009  HIGHEST RN 1151391-70-6
DICTIONARY FILE UPDATES:  31 MAY 2009  HIGHEST RN 1151391-70-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

   Please note that search-term pricing does apply when
   conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\STNEXP\Queries\10590623_new_1.str
```
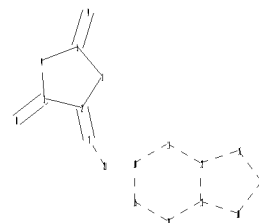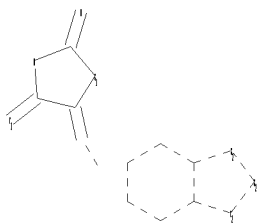
```
chain nodes :
7  8  9
ring nodes :
1  2  3  4  5  10  11  12  13  14  15  16  17  18
chain bonds :
2-7  3-8  5-9
ring bonds :
1-2  1-5  2-3  3-4  4-5  10-15  10-11  11-12  12-13  12-16  13-14  13-18  14-15
16-17  17-18
exact/norm bonds :
1-2  1-5  2-3  2-7  3-4  3-8  4-5  5-9  10-15  10-11  11-12  12-13  12-16  13-14
13-18  14-15  16-17  17-18


G1:O,S

G2:C,O,S,N

G3:O,S,N

Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  7:CLASS  8:CLASS  9:CLASS  10:Atom  11:Atom
12:Atom  13:Atom  14:Atom  15:Atom  16:Atom  17:Atom  18:Atom  21:CLASS



L12     STRUCTURE UPLOADED

=> d
```
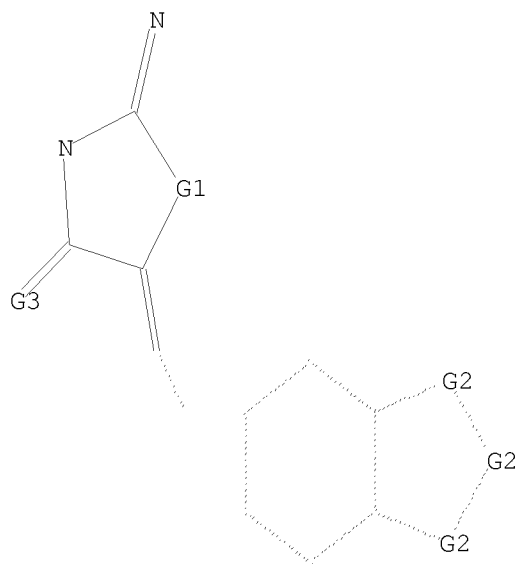
L12 HAS NO ANSWERS
L12   STR

G1 O,S
G2 C,O,S,N
G3 O,S,N

Structure attributes must be viewed using STN Express query preparation.

=> s l12 sam
SAMPLE SEARCH INITIATED 10:19:43 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   857 TO ITERATE

100.0% PROCESSED   857 ITERATIONS   25 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE   **COMPLETE**
                         BATCH   **COMPLETE**
PROJECTED ITERATIONS: 15384 TO   18896
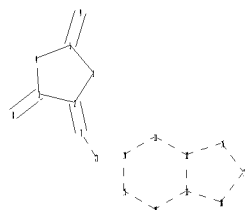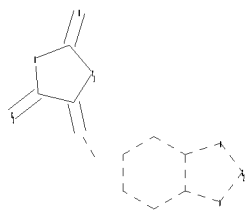PROJECTED ANSWERS: 200 TO   800

L13   25 SEA SSS SAM L12

=> s l12 full
FULL SEARCH INITIATED 10:21:26 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   17550 TO ITERATE

100.0% PROCESSED   17550 ITERATIONS   843 ANSWERS
SEARCH TIME: 00.00.01

L14   843 SEA SSS FUL L12

=>
Uploading C:\Program Files\STNEXP\Queries\10590623_new_2.str

chain nodes :
7 8 9
ring nodes :
1 2 3 4 5 10 11 12 13 14 15 16 17 18
chain bonds :
2-7 3-8 5-9
ring bonds :
1-2 1-5 2-3 3-4 4-5 10-15 10-11 11-12 12-13 12-16 13-14 13-18 14-15
16-17 17-18
exact/norm bonds :
1-2 1-5 2-3 2-7 3-4 3-8 4-5 5-9 10-15 10-11 11-12 12-13 12-16 13-14
13-18 14-15 16-17 17-18

G1:O,S

G2:C,O,S,N

G3:O,S,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 7:CLASS 8:CLASS 9:CLASS 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 21:CLASS

L15   STRUCTURE UPLOADED

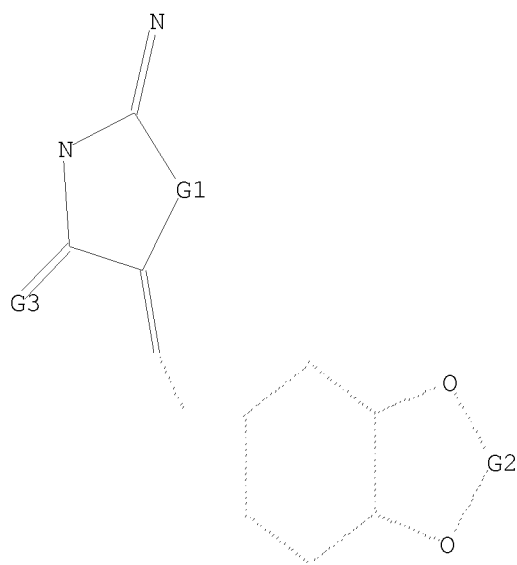=> s l15 sam

```
SAMPLE SEARCH INITIATED 10:21:56 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -       66 TO ITERATE

100.0% PROCESSED        66 ITERATIONS                        17 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:   ONLINE   **COMPLETE**
                         BATCH    **COMPLETE**
PROJECTED ITERATIONS:           833 TO     1807
PROJECTED ANSWERS:               93 TO      587

L16           17 SEA SSS SAM L15

=> d l15
L15 HAS NO ANSWERS
L15              STR
```



```
G1 O,S
G2 C,O,S,N
G3 O,S,N
```

Structure attributes must be viewed using STN Express query preparation.

```
=> s l15 full
FULL SEARCH INITIATED 10:22:03 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    1667 TO ITERATE

100.0% PROCESSED     1667 ITERATIONS                       551 ANSWERS
SEARCH TIME: 00.00.01

L17          551 SEA SSS FUL L15

=> d his

     (FILE 'HOME' ENTERED AT 08:00:53 ON 01 JUN 2009)
```

```
      FILE 'MARPAT' ENTERED AT 08:01:05 ON 01 JUN 2009
L1              STRUCTURE UPLOADED
L2          0 S L1 SAM
L3          2 S L1 FULL


      FILE 'REGISTRY' ENTERED AT 09:17:21 ON 01 JUN 2009
L4              STRUCTURE UPLOADED
L5         50 S L4 SAM
L6              STRUCTURE UPLOADED
L7         50 S L6 SAM
L8              STRUCTURE UPLOADED
L9         25 S L8 SAM
L10        818 S L8 FULL


      FILE 'CAPLUS' ENTERED AT 09:21:05 ON 01 JUN 2009
L11         46 S L10


      FILE 'STNGUIDE' ENTERED AT 09:25:07 ON 01 JUN 2009


      FILE 'CAPLUS' ENTERED AT 09:52:47 ON 01 JUN 2009


      FILE 'STNGUIDE' ENTERED AT 09:52:58 ON 01 JUN 2009


      FILE 'REGISTRY' ENTERED AT 10:19:12 ON 01 JUN 2009
L12             STRUCTURE UPLOADED
L13         25 S L12 SAM
L14        843 S L12 FULL
L15             STRUCTURE UPLOADED
L16         17 S L15 SAM
L17        551 S L15 FULL

=> s l14 not l17
L18        292 L14 NOT L17

=> file caplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                ENTRY        SESSION
FULL ESTIMATED COST                            373.68       972.09

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)    SINCE FILE      TOTAL
                                                ENTRY        SESSION
CA SUBSCRIBER PRICE                             0.00        -39.28
```

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

CAplus now includes complete International Patent Classification (IPC)
reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate

=> d his

       (FILE 'HOME' ENTERED AT 08:00:53 ON 01 JUN 2009)

       FILE 'MARPAT' ENTERED AT 08:01:05 ON 01 JUN 2009
L1   STRUCTURE UPLOADED
L2   0 S L1 SAM
L3   2 S L1 FULL

       FILE 'REGISTRY' ENTERED AT 09:17:21 ON 01 JUN 2009
L4   STRUCTURE UPLOADED
L5   50 S L4 SAM
L6   STRUCTURE UPLOADED
L7   50 S L6 SAM
L8   STRUCTURE UPLOADED
L9   25 S L8 SAM
L10   818 S L8 FULL

       FILE 'CAPLUS' ENTERED AT 09:21:05 ON 01 JUN 2009
L11   46 S L10

       FILE 'STNGUIDE' ENTERED AT 09:25:07 ON 01 JUN 2009

       FILE 'CAPLUS' ENTERED AT 09:52:47 ON 01 JUN 2009

       FILE 'STNGUIDE' ENTERED AT 09:52:58 ON 01 JUN 2009

       FILE 'REGISTRY' ENTERED AT 10:19:12 ON 01 JUN 2009
L12   STRUCTURE UPLOADED
L13   25 S L12 SAM
L14   843 S L12 FULL
L15   STRUCTURE UPLOADED
L16   17 S L15 SAM
L17   551 S L15 FULL
L18   292 S L14 NOT L17

       FILE 'CAPLUS' ENTERED AT 10:22:31 ON 01 JUN 2009

=> s l18
L19   16 L18

=> d l19 ibib gi abs 1-16 hitstr

=> d his

       (FILE 'HOME' ENTERED AT 08:00:53 ON 01 JUN 2009)

       FILE 'MARPAT' ENTERED AT 08:01:05 ON 01 JUN 2009
L1   STRUCTURE UPLOADED

```
L2              0 S L1 SAM
L3              2 S L1 FULL


     FILE 'REGISTRY' ENTERED AT 09:17:21 ON 01 JUN 2009
L4              STRUCTURE UPLOADED
L5             50 S L4 SAM
L6              STRUCTURE UPLOADED
L7             50 S L6 SAM
L8              STRUCTURE UPLOADED
L9             25 S L8 SAM
L10           818 S L8 FULL


     FILE 'CAPLUS' ENTERED AT 09:21:05 ON 01 JUN 2009
L11            46 S L10


     FILE 'STNGUIDE' ENTERED AT 09:25:07 ON 01 JUN 2009


     FILE 'CAPLUS' ENTERED AT 09:52:47 ON 01 JUN 2009


     FILE 'STNGUIDE' ENTERED AT 09:52:58 ON 01 JUN 2009


     FILE 'REGISTRY' ENTERED AT 10:19:12 ON 01 JUN 2009
L12            STRUCTURE UPLOADED
L13            25 S L12 SAM
L14           843 S L12 FULL
L15            STRUCTURE UPLOADED
L16            17 S L15 SAM
L17           551 S L15 FULL
L18           292 S L14 NOT L17


     FILE 'CAPLUS' ENTERED AT 10:22:31 ON 01 JUN 2009
L19            16 S L18

=> s l17
L20            33 L17

=> d l20 ibib gi abs fhitstr 1-33


=> logoff hold

     (FILE 'HOME' ENTERED AT 08:00:53 ON 01 JUN 2009)


     FILE 'MARPAT' ENTERED AT 08:01:05 ON 01 JUN 2009
L1              STRUCTURE UPLOADED
L2              0 SEA FILE=MARPAT SSS SAM L1
                D L1
L3              2 SEA FILE=MARPAT SSS FUL L1
                D L3 IBIB ABS
                D L3 IBIB ABS 2


     FILE 'REGISTRY' ENTERED AT 09:17:21 ON 01 JUN 2009
L4              STRUCTURE UPLOADED
                D
L5             50 SEA FILE=REGISTRY SSS SAM L4
L6              STRUCTURE UPLOADED
                D
L7             50 SEA FILE=REGISTRY SSS SAM L6
L8              STRUCTURE UPLOADED
                D
L9             25 SEA FILE=REGISTRY SSS SAM L8
```

```
L10          818 SEA FILE=REGISTRY SSS FUL L8

     FILE 'CAPLUS' ENTERED AT 09:21:05 ON 01 JUN 2009
L11           46 SEA FILE=CAPLUS SPE=ON  ABB=ON  PLU=ON  L10
                D L11 1-46 IBIB GI ABS FHITSTR

     FILE 'STNGUIDE' ENTERED AT 09:25:07 ON 01 JUN 2009

     FILE 'CAPLUS' ENTERED AT 09:52:47 ON 01 JUN 2009
                D L11 13 HITSTR

     FILE 'STNGUIDE' ENTERED AT 09:52:58 ON 01 JUN 2009

     FILE 'REGISTRY' ENTERED AT 10:19:12 ON 01 JUN 2009
L12          STRUCTURE UPLOADED
             D
L13           25 SEA FILE=REGISTRY SSS SAM L12
L14          843 SEA FILE=REGISTRY SSS FUL L12
L15          STRUCTURE UPLOADED
L16           17 SEA FILE=REGISTRY SSS SAM L15
                D L15
L17          551 SEA FILE=REGISTRY SSS FUL L15
L18          292 SEA FILE=REGISTRY SPE=ON  ABB=ON  PLU=ON  L14 NOT L17

     FILE 'CAPLUS' ENTERED AT 10:22:31 ON 01 JUN 2009
L19           16 SEA FILE=CAPLUS SPE=ON  ABB=ON  PLU=ON  L18
                D L19 IBIB GI ABS 1-16 HITSTR
L20           33 SEA FILE=CAPLUS SPE=ON  ABB=ON  PLU=ON  L17
                D L20 IBIB GI ABS FHITSTR 1-33
COST IN U.S. DOLLARS                         SINCE FILE      TOTAL
                                               ENTRY       SESSION
FULL ESTIMATED COST                           293.86      1265.95

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)    SINCE FILE      TOTAL
                                               ENTRY       SESSION
CA SUBSCRIBER PRICE                           -40.18       -79.46

 SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 10:43:44 ON 01 JUN 2009
```